BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:Improvements to roads and drains at Singapura and sorrounding areas in ward no.11 in kuvempunagara

Estimated cost.Rs 9900000.00

Sl no	Description of Item	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	Earthwork excavation by manual means for roadsand, drains and similar works in oridinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of colds complete as per specifications complete as per the directions of the Engineer-in-charge of the work .								
	Desilt								
	Singapura layout								
	2nd main road	Cum	2	370	0.60	0.6	266.40		
	2nd main	Cum	1	55.0	0.60	0.6	19.80		
	Singapura layout								
	1st main	Cum	2	402.0	0.50	0.5	201.00		
	Varadappa layout								
	1st main	Cum	2	118.0	0.50	0.5	59.00		
	1st main rightside								
	3rd cross	Cum	2	53.0	0.60	0.6	38.16		
	1st main rightside								
	2nd cross	Cum	2	59.0	0.60	0.6	42.13		
	1st main rightside								
	1st cross	Cum	2	40.0	0.60	0.6	28.82		
	1st main left side								
	3rd cross	Cum	2	70.85	0.60	0.6	51.01		
	1st main left side								
	4th cross	Cum	2	92.9	0.60	0.6	66.89		
	2nd main	Cum	2	117.0	0.60	0.6	84.24		
	4th main	Cum	2	123.0	0.50	0.5	61.50		
	NEW DRAIN								
	Singapura layout								
	6th cross	Cum	2	41.3	1.10	1.0	90.86		
	For flagging coarce								
	Singapura layout								
	2nd main road	Cum	2	205	0.30	0.6	73.80		
	2nd main								
	cross road 1	Cum	2	16.0	0.30	0.6	5.76		
	Singapura layout								
	1st main	Cum	2	140.0	0.30	0.6	46.20		
	Varadappa layout								
	1st main	Cum	2	49.0	0.30	0.6	17.64		
	1st main rightside								
	3rd cross	Cum	2	27.0	0.30	0.4	5.67		
	1st main rightside								
	2nd cross	Cum	2	34.0	0.30	0.4	7.14		
	1st main rightside								
	1st cross	Cum	1	10.6	0.30	0.4	1.28		
	1st main left side								
	3rd cross	Cum	2	25.00	0.30	0.4	6.00		
	1st main left side								
	4th cross	Cum	2	40.00	0.30	0.4	8.40		
	2nd main	Cum	2	80.00	0.30	0.4	19.20		
	4th main	Cum	2	70.00	0.30	0.4	14.70		

Sl no	Description of Item	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	Basic Rate							130.00	
	Area weightage 6%							7.80	
	5km lead & lift =57+(2*1.28*5)							69.80	
	Total						**1215.59**	**207.60**	**252357.50**
2	Removing and refixing stone slabs of drain and pointing in CM(1:3)								
	Drain(sides and bottom)		**Width=perimeter of drain in U Shape**						
	Singapura layout								
	2nd main road	Sqm	2	370	1.8		1332.00		
	2nd main cross road	Sqm	1	55	1.8		99.00		
	Singapura layout								
	1st main	Sqm	2	402	1.35		1085.40		
	Varadappa layout								
	1st main								
	R H S	Sqm	2	118	1.35		318.60		
	1st main rightside								
	3rd cross	Sqm	2	53	1.8		190.80		
	1st main rightside								
	2nd cross	Sqm	2	59	1.8		212.40		
	1st main rightside								
	1st cross	Sqm	2	40	1.8		144.00		
	1st main left side								
	3rd cross	Sqm	2	70.80	1.8		254.88		
	1st main left side								
	4th cross	Sqm	2	92.90	1.8		331.84		
	2nd main	Sqm	2	117	1.35		315.90		
	4th main	Sqm	2	123	1.35		332.10		
					Sub Total		4616.92		
	Consider 26% Missing or damaged slabs						1214.25		
							3402.67		
	Basic Rate							105.00	
	Area weightage 6%							6.30	
	Total						**3402.67**	**111.30**	**378717.08**
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc and as per the directions of the Engineer-in-charge of the work .								
	Consider 26% Missing or damaged slabs	Sqm					1214.25		
	Basic Rate							700.00	
	Area weightage 6%							42.00	
	Total						**1214.25**	**742.00**	**900973.24**
4	Construction of Rolled Cement Concrete mix 1:4:8 OPC cement @180kgs, with 25mm and down size graded granite metal coarse aggregate at 0.85cum and fine aggregates @0.57cum base course with coarse and fine aggregate conforming to IS:383, aggregate cement ratio 12:1 and minimum cement content of 180kg/ cum, aggregate gradation to be as per Table 600-4 after blending, mixing in batching plant at optimum moisture content, transporting to site, laying with a paver with electronic sensor, compacting with 8-10 tonnes smooth wheeled vibratory roller to achieve, the designed flexural strength, finishing and curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .								

Sl no	Description of Item	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	For flagging cource								
	Singapura layout								
	2nd main road	Cum	2	205	0.3	0.15	18.45		
	2nd main								
	cross road 1	Cum	1	16	0.3	0.15	0.72		
	Singapura layout								
	1st main	Cum	2	140	0.3	0.15	13.51		
	Varadappa layout								
	1st main	Cum	2	49	0.3	0.15	4.41		
	1st main rightside								
	3rd cross	Cum	2	27	0.3	0.15	2.43		
	1st main rightside								
	2nd cross	Cum	2	34	0.3	0.15	3.06		
	1st main rightside								
	1st cross	Cum	1	10.6	0.3	0.15	0.48		
	1st main left side								
	3rd cross	Cum	2	25	0.3	0.15	2.25		
	1st main left side								
	4th cross	Cum	1	40	0.3	0.15	1.80		
	2nd main	Cum	2	80	0.3	0.15	7.20		
	4th main	Cum	2	70	0.3	0.15	6.28		
	Basic Rate							5102.00	
	Area weightage 6%							306.12	
	Total						**60.59**	**5408.12**	**327675.29**
5	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. blocks of size 400x200x200mm								
	For flogging coarce								
	Singapura layout								
	2nd main road	Sqm	4	205		0.6	525.95		
	2nd main								
	cross road 1	Sqm	4	16		0.6	42.11		
	Singapura layout								
	1st main	Sqm	4	140		0.6	359.42		
	Varadappa layout								
	1st main	Sqm	4	49		0.6	126.46		
	1st main rightside								
	3rd cross	Sqm	4	27		0.6	65.76		
	2nd cross	Sqm	4	34		0.6	82.56		
	1st main rightside								
	1st cross	Sqm	2	11		0.6	12.72		
	1st main left side								
	3rd cross	Sqm	4	28		0.4	48.16		
	1st main left side								
	4th cross	Sqm	4	40		0.6	103.55		
	R H S								
	2nd main	Sqm	4	80		0.6	206.27		
	4th main	Sqm	4	75		0.6	193.97		
	Basic Rate							962.00	
	Area weightage 6%							57.72	
	Total						**1766.95**	**1019.72**	**1801796.13**

Sl no	Description of Item	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
6	KSRB 4-1.1: Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.53cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	For Flagging coarce								
	coping concrete								
	Singapura layout								
	2nd main road	Cum	4	205	0.2	0.1	16.40		
	2nd main								
	cross road 1	Cum	4	16	0.2	0.1	1.28		
	Singapura layout								
	1st main	Cum	4	140	0.2	0.1	11.20		
	Varadappa layout								
	1st main	Cum	4	49	0.2	0.1	3.92		
	1st main rightside								
	3rd cross	Cum	4	27	0.2	0.1	2.16		
	1st main rightside								
	2nd cross	Cum	4	34	0.2	0.1	2.72		
	1st main rightside								
	1st cross	Cum	2	10.6	0.2	0.1	0.42		
	1st main left side								
	3rd cross	Cum	2	25	0.2	0.1	1.00		
	1st main left side								
	4th cross	Cum	4	40	0.2	0.1	2.77		
	2nd main	Cum	4	80	0.2	0.1	6.40		
	4th main	Cum	4	70	0.2	0.1	5.59		
	Basic Rate							5422.00	
	Area weightage 6%							325.32	
	TOTAL						**53.86**	**5747.32**	**309539.16**
7	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	New drain pcc								
	Singapura layout								
	6th cross	Cum	2	47.4	1.1	0.15	15.64		
	Basic Rate							5194.00	
	Area weightage 6%							311.64	
	TOTAL						**15.64**	**5505.64**	**86119.22**
8	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.430 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6								
	Singapura layout								
	6th cross								
	Bottom Raft	Cum	2	47.40	0.9	0.15	12.19		
	Side wall								
	6th cross	Cum	4	47.40	0.15	0.65	18.49		

Sl no	Description of Item	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	Basic Rate								
	Area weightage 6%							6670.00	
	TOTAL							400.20	
							30.67	**7070.20**	**216860.99**
9	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work .								
	For drain 60 kg	tonne	1	30.66	0.060		1.84		
	Basic Rate							68233.00	
	Area weightage 6%							4093.98	
	TOTAL						**1.84**	**72326.98**	**133039.69**
10	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shuttering machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications C : C 1:1.5:3 Including all cost of material (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab. and as per the directions of the Engineer-in-charge of the work .								
	Cover slab								
	Singapura layout								
	2nd main road	Sqm	2	204	0.90		367.20		
	2nd main								
	cross road 1	Sqm	2	17	0.90		30.60		
	Singapura layout								
	1st main	Sqm	2	131	0.90		235.80		
	Varadappa layout								
	1st main	Sqm	2	49	0.90		88.20		
	1st main rightside								
	3rd cross	Sqm	2	28	0.90		50.40		
	1st main rightside								
	2nd cross	Sqm	2	29	0.75		43.50		
	1st main rightside								
	1st cross	Sqm	1	10.6	0.75		7.95		
	1st main left side								
	3rd cross	Sqm	1	19	0.75		14.25		
	1st main left side								
	4th cross	Sqm	2	36	0.75		54.00		
	2nd main	Sqm	2	68	0.90		122.40		
	4th main	Sqm	2	66	0.90		118.80		
	New drain								
	Singapura layout								
	6th cross	Sqm	2	36	0.90		63.80		
	Data rate								
	TOTAL						**1196.90**	**2337.00**	
								2337.00	**2797147.37**
11	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge								
	Kerb stone								
	Singapura layout								
	2nd main road	m	2	177			354.00		

Sl no	Description of Item	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	2nd main								
	cross road 1	m	2	14			28.00		
	Singapura layout								
	1st main	m	2	122			244.00		
	Varadappa layout								
	1st main	m	2	49			98.00		
	1st main rightside								
	3rd cross	m	2	21			42.00		
	1st main rightside								
	2nd cross	m	2	17			34.00		
	1st main rightside								
	1st cross	m	1	10.6			10.60		
	1st main left side								
	3rd cross	m	2	18			36.20		
	1st main left side								
	4th cross	m	2	32			64.00		
	2nd main	m	2	64			128.00		
	4th main	m	2	66			131.60		
						Sub Total	1170.40		
						1170/0.45	2600.9		
	Basic Rate							408.00	
	Area weightage 6%							24.48	
	TOTAL						**2601**	**432.48**	**1124832.43**
12	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification As per the direction of Engineer incharge								
	Kerb stone								
	Singapura layout								
	2nd main road	Sqm	2	177.00		0.35	123.9		
	2nd main								
	cross road 1	Sqm	2	14.00		0.35	9.8		
	Singapura layout								
	1st main	Sqm	2	122.00		0.35	85.4		
	Varadappa layout								
	1st main	Sqm	2	49.00		0.35	34.055		
	1st main rightside								
	3rd cross	Sqm	2	21.00		0.35	14.7		
	2nd cross	Sqm	2	17.00		0.35	11.9		
	1st main rightside								
	1st cross	Sqm	1	10.60		0.35	3.71		
	1st main left side								
	3rd cross	Sqm	2	18.00		0.35	12.6		
	1st main left side								
	4th cross	Sqm	2	32.00		0.35	22.4		
	2nd main	Sqm	2	64.00		0.35	44.8		
	4th main	Sqm	2	66.00		0.35	46.33		
	Basic Rate							80.00	
	Area weightage 6%							4.80	
	TOTAL						**409.60**	**84.80**	**34733.83**
								Grand total	**8363791.92**
								KRIDL @ 3+1=4%	**334551.68**
								DPR & PMC Charges @ 2%	**198000.00**

Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
						-		1003655.03
							GST Charges (12% of estimated cost)	1024079.10
							Miscellenious and rounding	1.37 568.66
							Total Amount	9900000.00
							RUPEES NINETY NINE LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary

2) The work spot comes under B.B.M.P

3) The provisions made in the estimate are necessary and minimum

4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
Vidhyaranyapuram Sub Division
BBMP

Assistant Executive Engineer
Vidhyaranyapuram Sub Division
BBMP

Executive Engineer
Vidhyaranyapuram Division
BBMP

ADMINISTRATIVE APPROVAL

Accorded For Rs. 99.00 Ninty Nine Lakhs only

Head of A/c. P3727, SC-SP/TSP

Div. Ref. No. 602/19-20 Date. 24-10-19

AE 29/10

EE(BTP) 24/10

Technical Sanction
Accorded For Rs 99.00 lakhs only
Head of A/C. P3727
CER NO : 145 Dt: 28.10.2019

TA — SE (YNK)